

FIG. 1

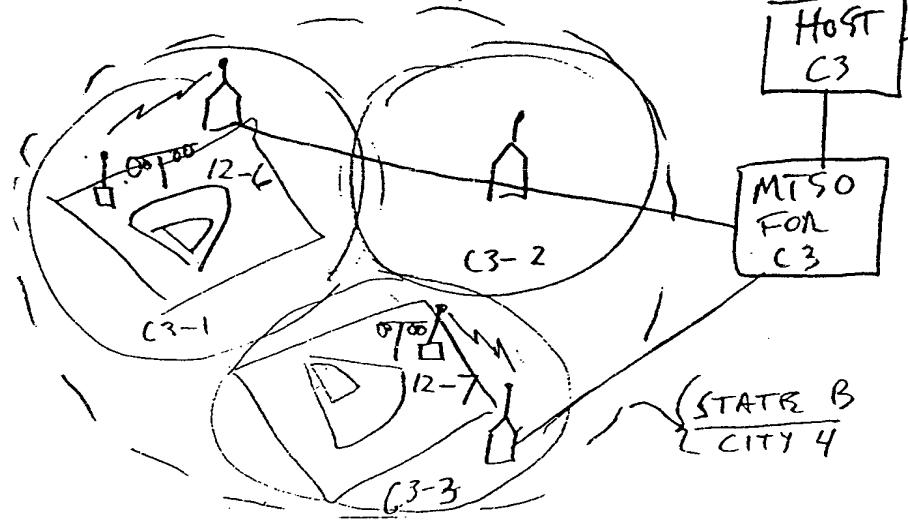
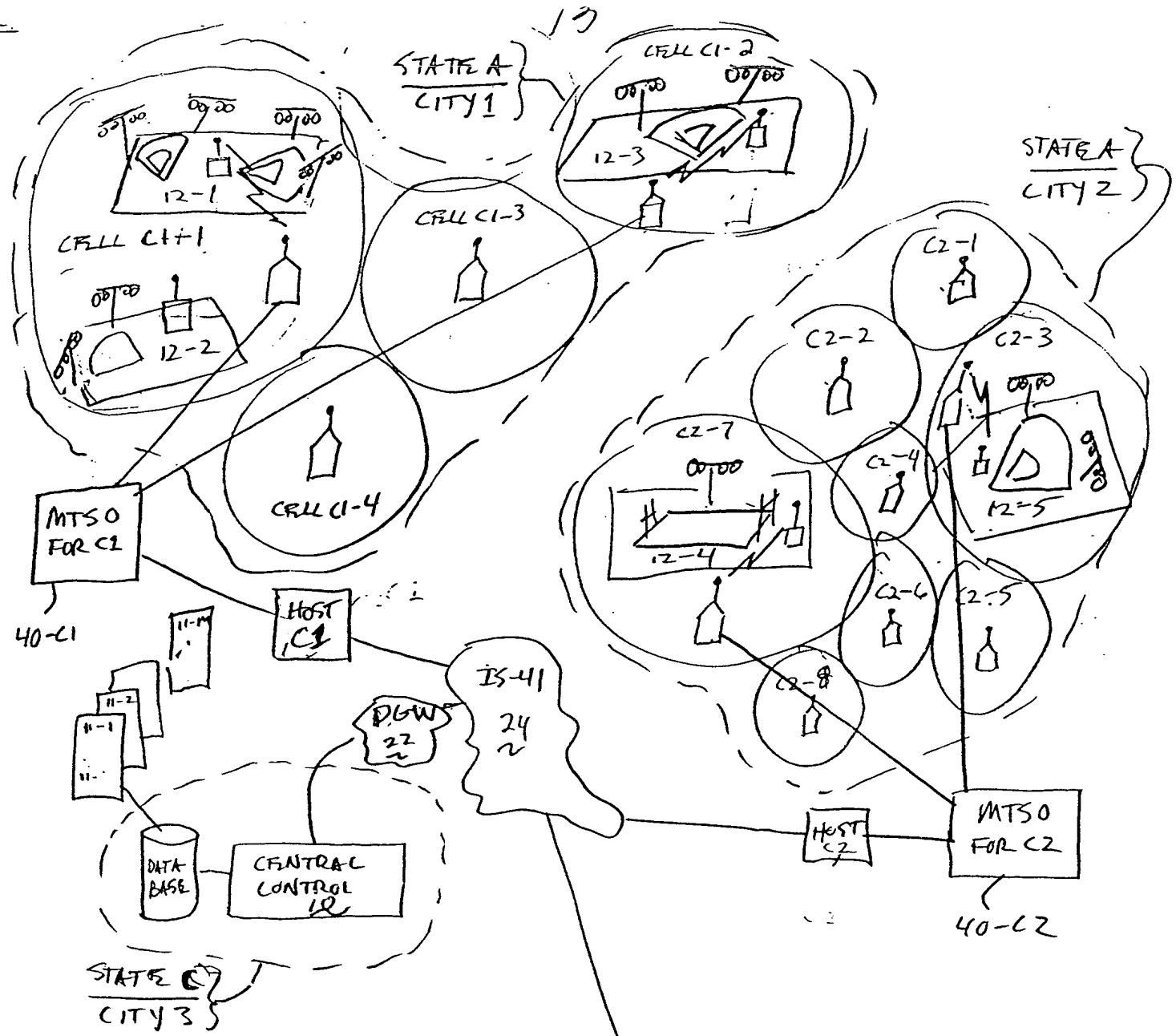


FIG. 2

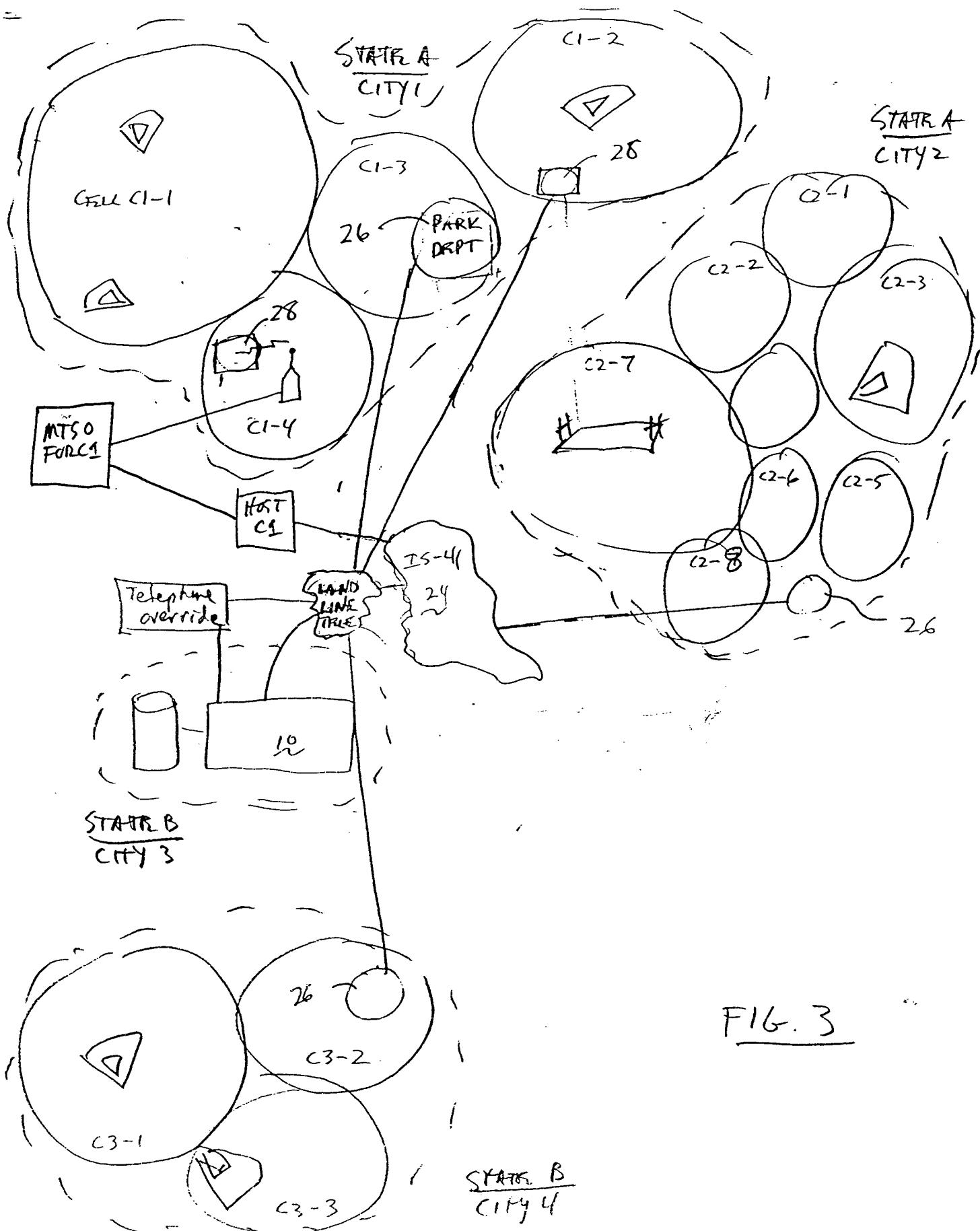
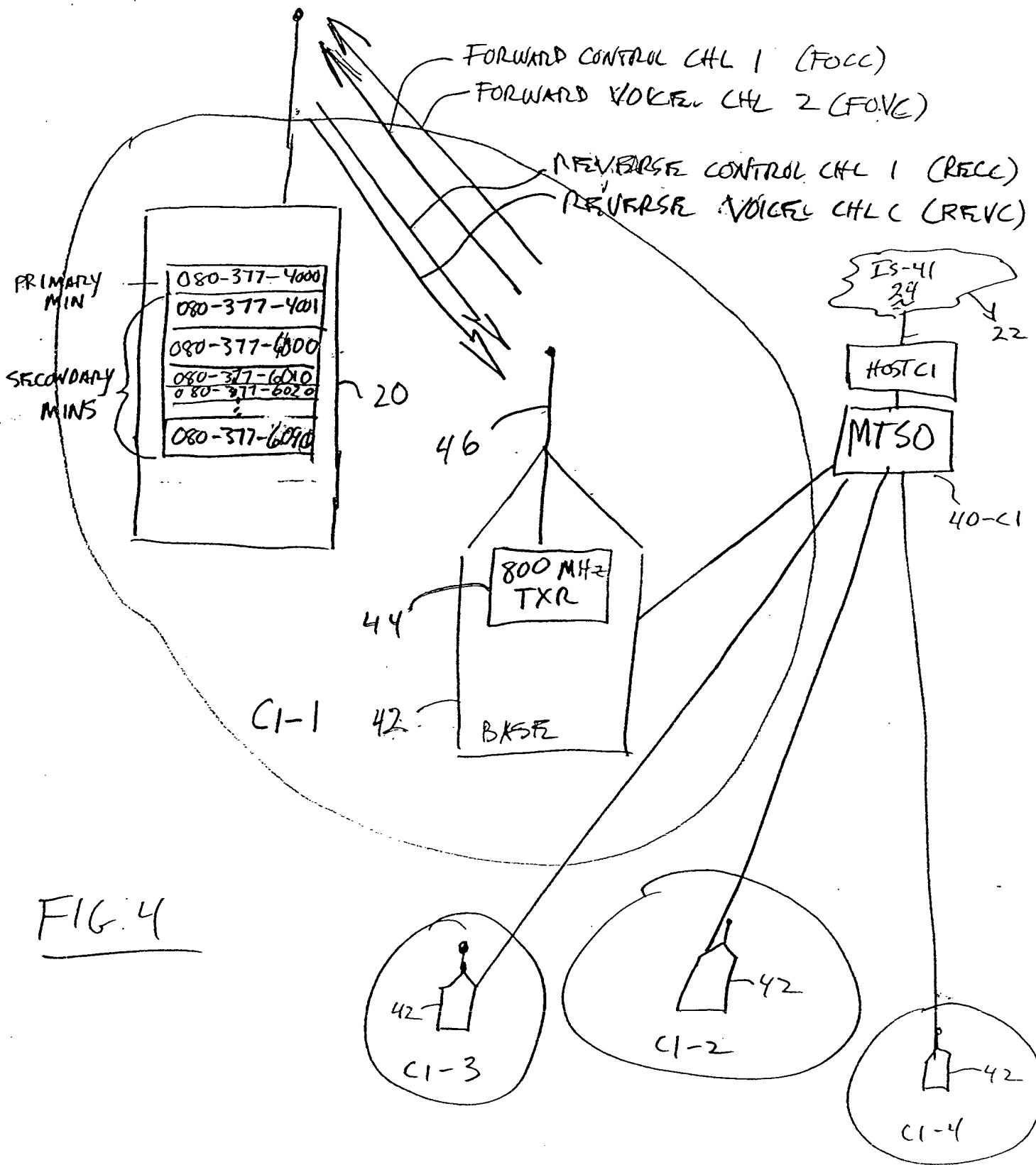


FIG. 3



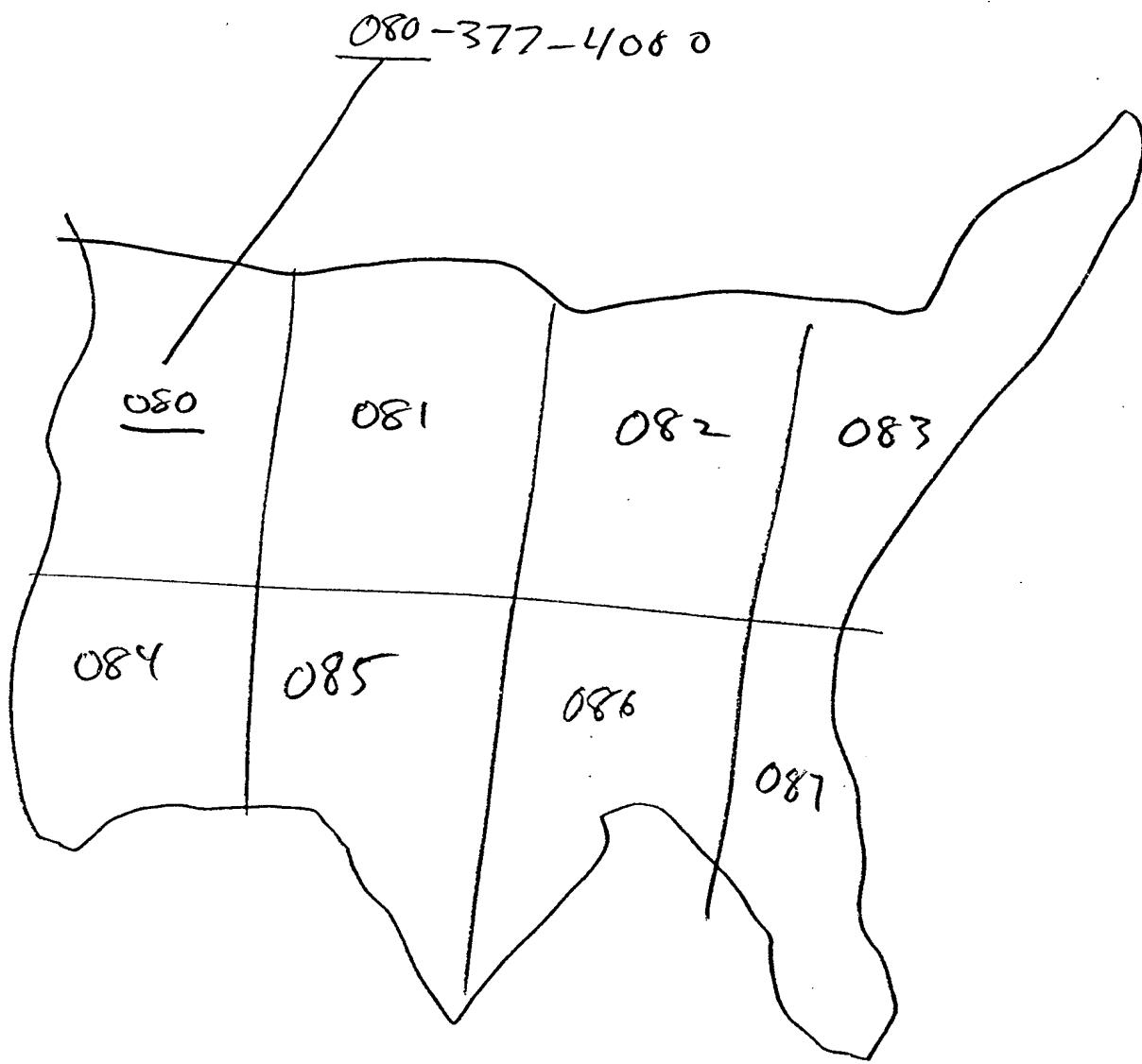


FIG. 5

$$080 = 377 - 400$$

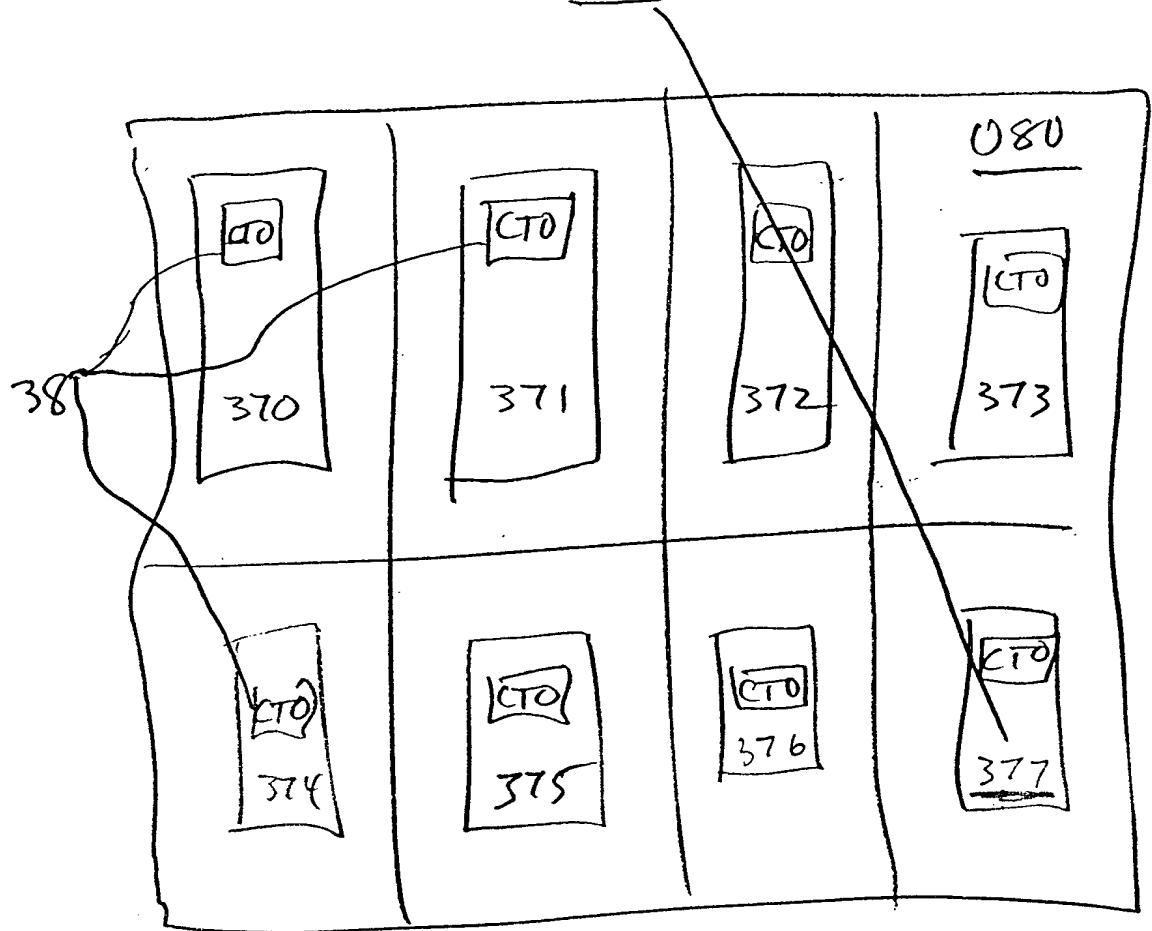


FIG. 6

080-377-4000

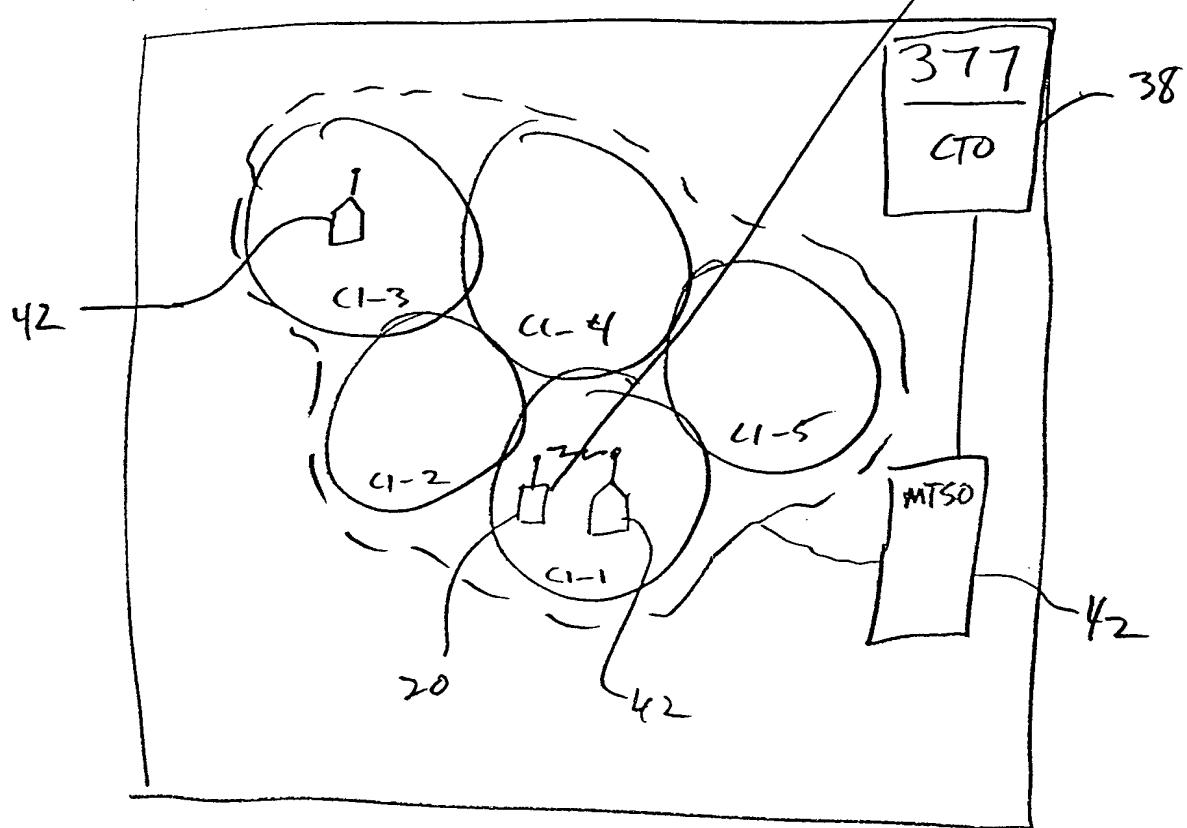
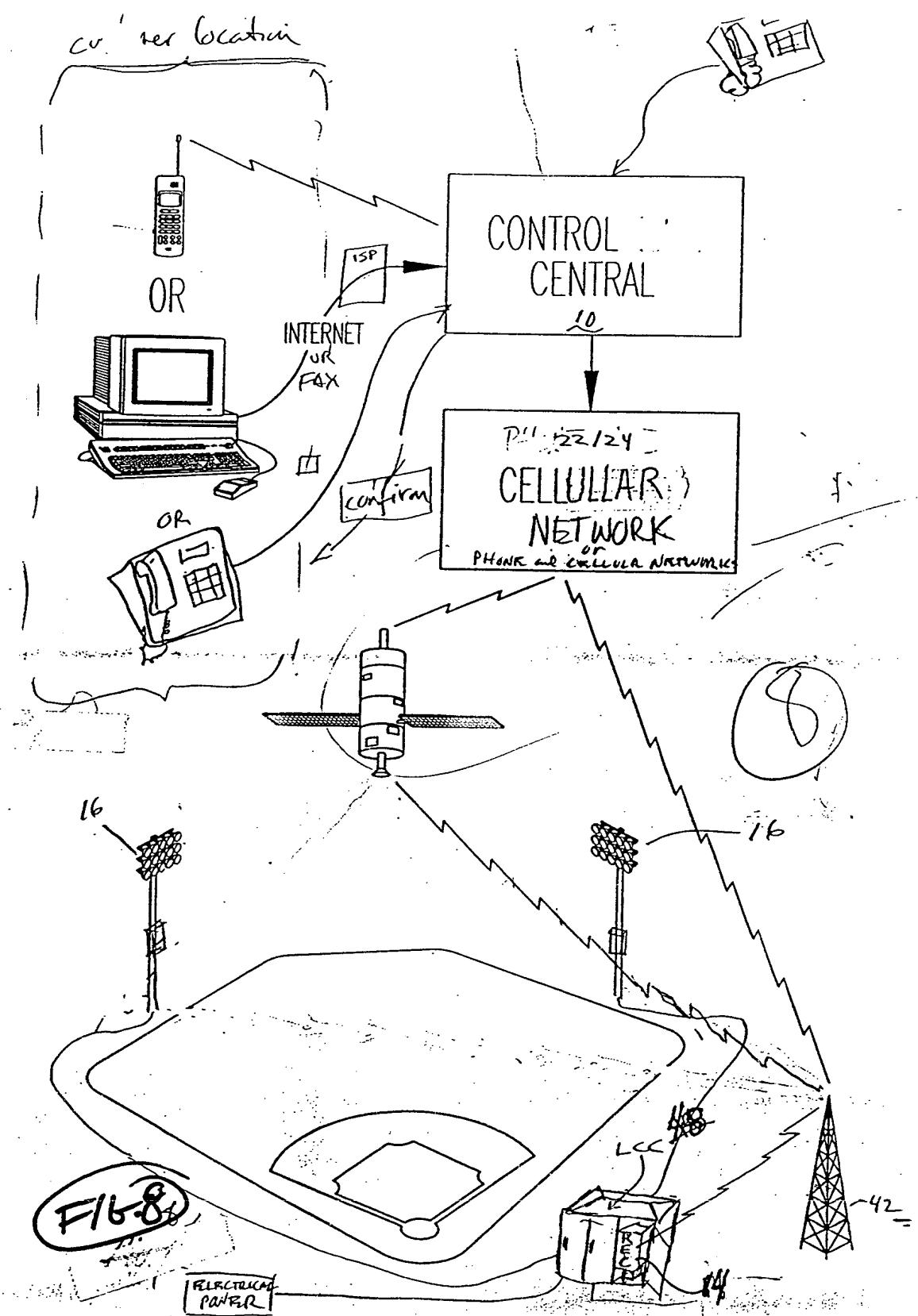


Fig. 7



Control-Link Flow

(1)
Control-Link
Customers
(26)



(2)
Control-Link Central (10)
Staff



(3)
Internet

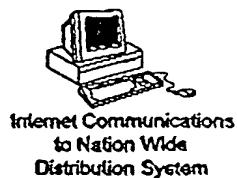
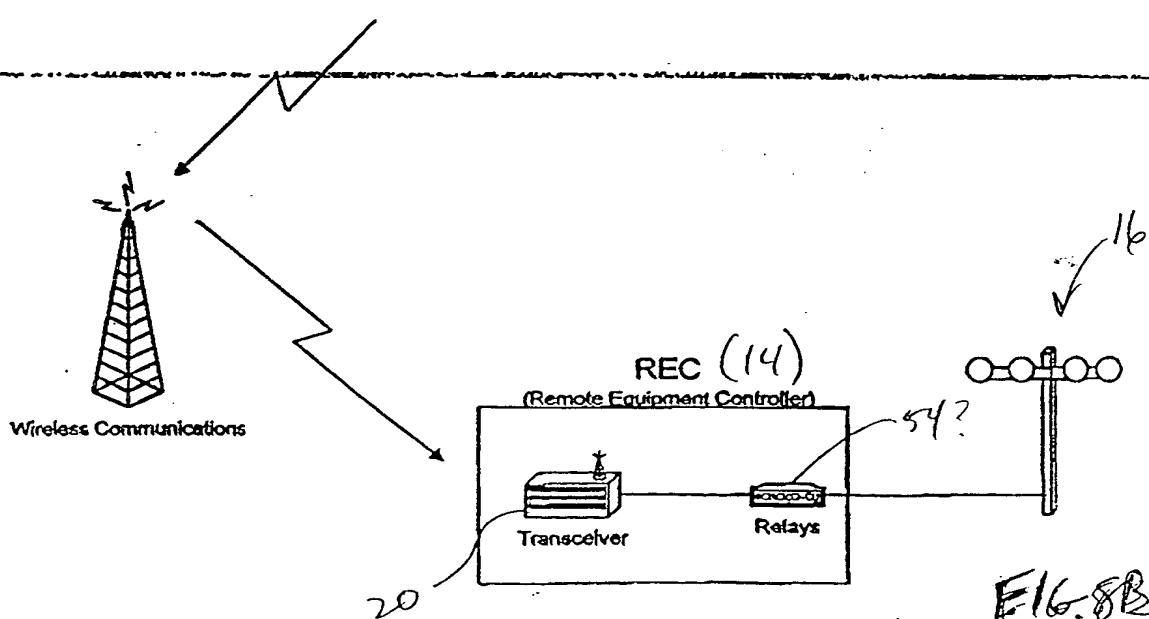


FIG. 8B

(4)
Facility controlled
by
Control-Link



Control-Link Flow Phase I

PAGE 2

Control-Link
Customers
(26)



Control-Link Central
Staff (10)

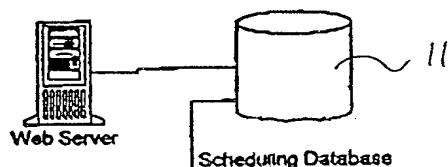


FIG. 8C

BackEnd Software Process to
send schedules to the gateway



Facility controlled
by
Control-Link

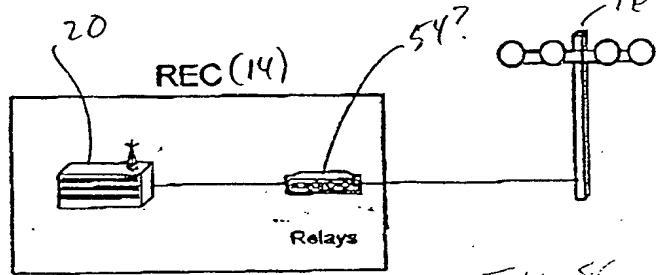
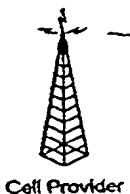


FIG. 8C

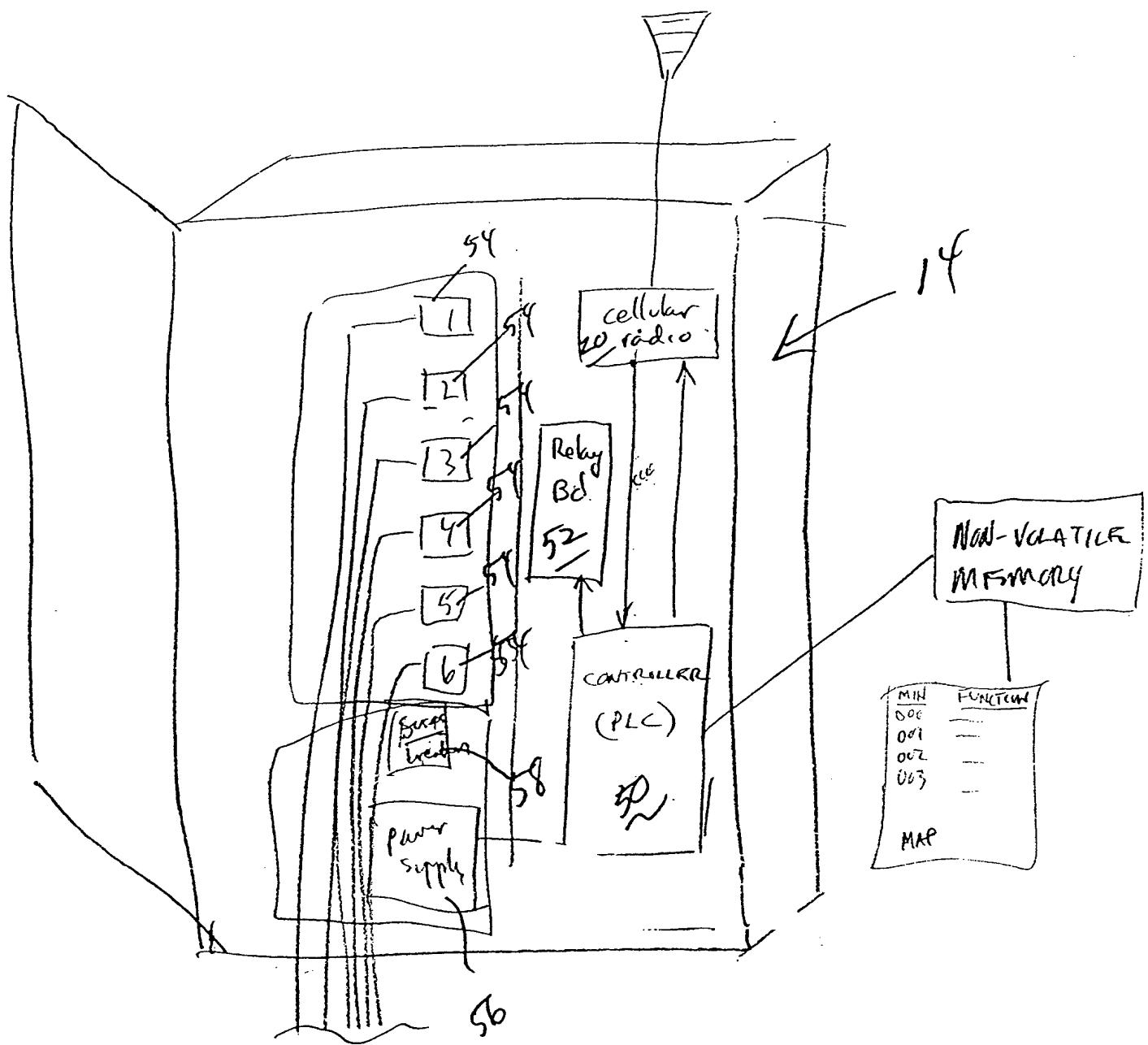


Fig. 9

Remote Equipment Controller (REC)

- Completely assembled and tested
- Only 3 electronic assemblies
- Built-in diagnostics and test buttons

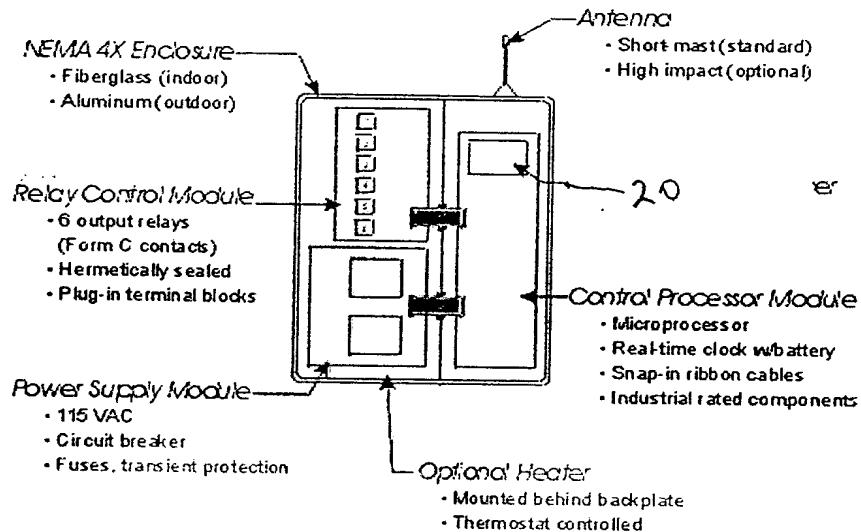


FIG. 9B

SCHEDULE

STATE A, CITY 1

Location: Twin Peaks Park

<u>Lighting Zone</u>	<u>ON Time</u>	<u>OFF Time</u>
Softball infield	18:00	22:30
Softball outfield	18:15	22:15
Soccer field	17:00	21:00
Security Lights	19:00	6:00

FIGURE 10

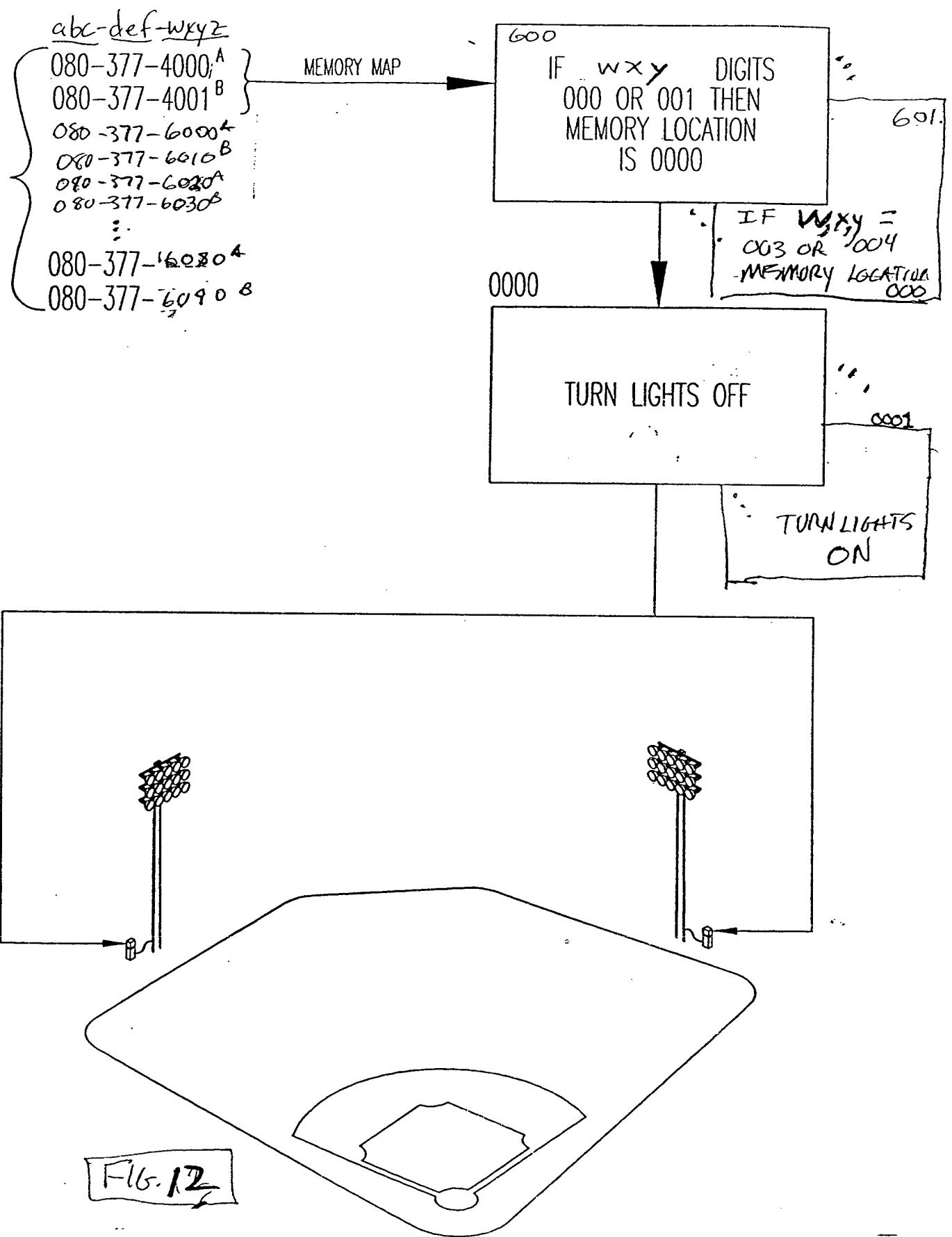
RERC WIRING DATA

LOCATION (FIELD, BALLPARK): _____

REMOTE EQUIPMENT CONTROLLER: _____

RELAY	CONTROL ZONE	POLES	CONT	ACTORS	DEFACILIT STATE
1					
2					
3					
4					
5					
6					

FIGURE 11

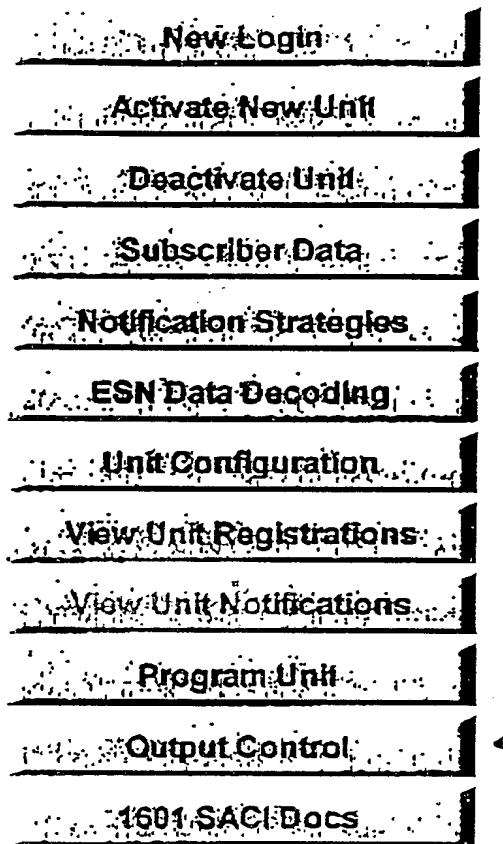


Login

Application ID	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="Login"/>	

FIG. 13

Menu



[FIG. 14]

Output Control

[Menu](#)

Unit Number 0061014000

[Refresh](#)
MIN #

Immediate Control

[Send](#)

<input checked="" type="checkbox"/> On	Output	1	2	3	4	5	6	7	8
<input type="checkbox"/> Off	State	∅	∅	∅	∅	∅	∅	∅	∅

Schedule: undefined

undefined

Row#	Mnth	Day	Once	Hour	Min	MO	TU	WE	TH	FR	SA	SU	Op1	Op2	Op3	Op4	Op5	Op6	Op7	Op8
2✓			X	11	10	✓	✓	✓	X	✓	✓	✓	∅	∅	∅	∅	∅	∅	∅	
1✓			X	11	16	X	X	X	✓	X	X	X	∅	∅	∅	∅	∅	∅	∅	

Click cell image to toggle setting. Click "Rec#" cell image to delete record.

[Insert](#)
[Update](#)
[Cancel](#)
FIG. 15



MUSCOControl-Link® Scheduler

07/02/1999

Instructions: 1. Follow instructions 1-4 below.
2. When completed email this form to schedule@musco.com or Fax to 800-XXXX-XXXX
* If you have any question or problems call Control-Link Central directly at 877-XXXX-XXXX

Customer Name: *City of Bartlett*

Customer Number: X Y Z

City & State: *Barlett TN.*

1. Fill In Usercode, Password, and Facility.

Usercode:	<input type="text"/>	[Required]
Password:	<input type="password"/>	[Required]
Facility:	<input type="text"/>	[Required]

2. If you would like your confirmation sent differently than indicated below, please let us know how you would like your confirmation sent. i.e. phone, email or fax.

Send back confirmation of the schedule to:

3. Established Weekly Schedules. (These occur weekly by default)

4. Fill In any Exception Scheduling needs which are different than your Fixed Schedule

Note: Lack of required information will delay the implementation of your schedule.

Fig. 16.

Musco Light Zone Information Form

City: [REDACTED] State: [REDACTED]

Time Zone: [REDACTED]

DayLight Savings Time Y/N: [REDACTED]

Facility Name: [REDACTED]

Unit/REC Number: [REDACTED]

Relay 1 Description: [REDACTED]

Relay 2 Description: [REDACTED]

Relay 3 Description: [REDACTED]

Relay 4 Description: [REDACTED]

Relay 5 Description: [REDACTED]

Relay 6 Description: [REDACTED]

Customer Light Zones:

Description

Relays

Schedule Information:

FIG.17

Customer Information Form

Musco Control-Link Customer Information Form

Customer Information

Name:

Address 1:

Address 2:

City:

State:

Zip:

Phone:

Fax:

Main Contact Information

Main Contact Name:

Day Phone:

Night Phone:

Cell Phone:

Pager:

F16.18

Facility Information Form

Musco Control-Link Facility Information Form

Customer Name:

Facility (Park) Name:

Address 1:

Address 2:

City:

State:

Zip:

Phone:

Emergency Contact Information

Emergency Contact Name:

Phone:

Time Information:

Time Zone:

Day Light Savings Time Y/N:

F16.19

Scheduler Information Form

Musco Control-Link Scheduler Information Form

Customer Name:

Scheduler Name:

Address 1:

Address 2:

City:

State:

Zip:

Phone:

Cell Phone:

Fax:

Email:

Pager:

UserCode:

Password:

Facilities (Parks) they are allowed to schedule:

F16.20

User Information Form

Musco Control-Link User Information Form

Customer Name:

(Park) User Name:

Address 1:

Address 2:

City:

State:

Zip:

Phone:

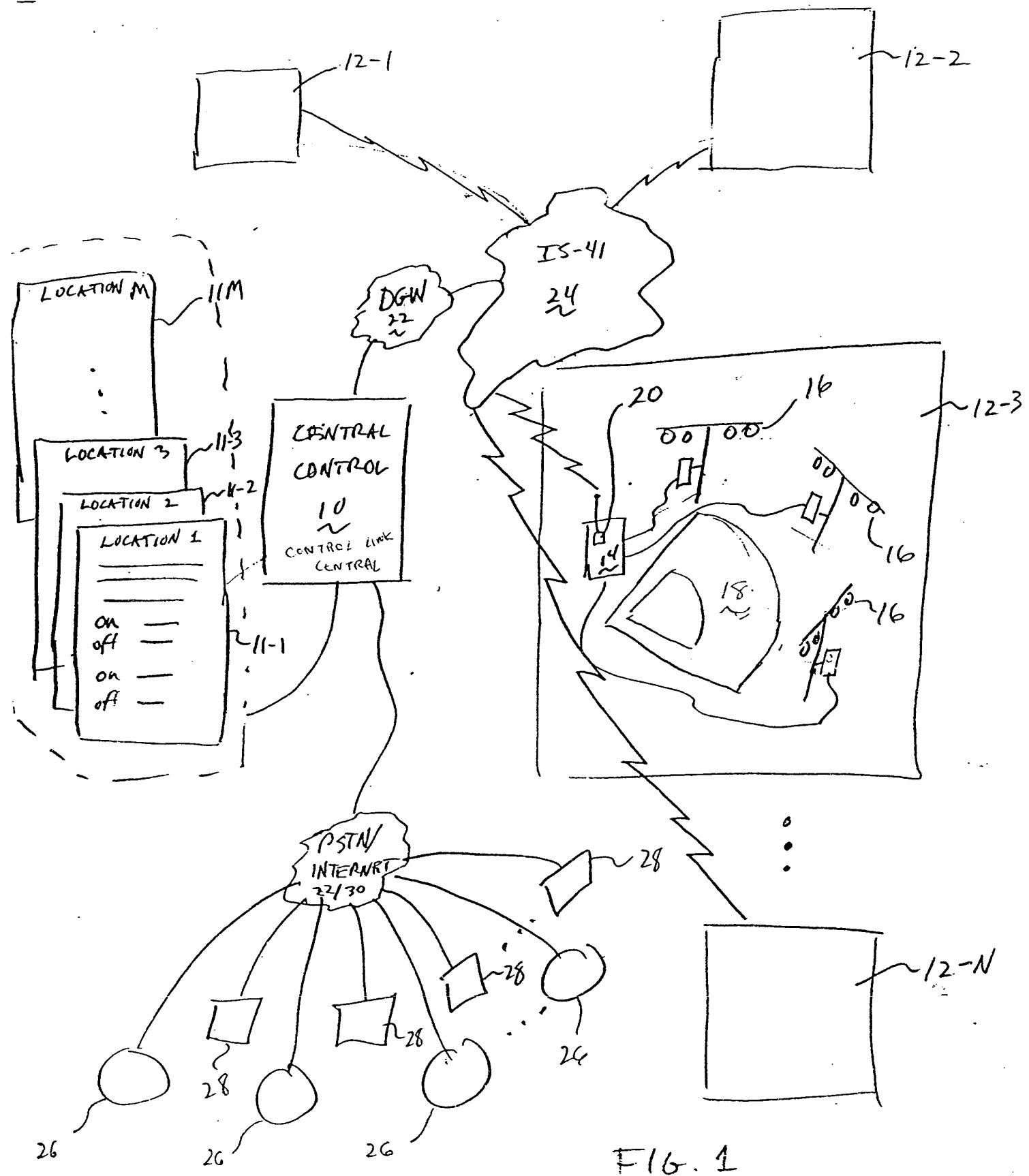
Fax:

Email:

Main Contact Name:

Facilities (Parks) they are allowed to use:

E16.21

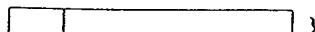


F16. 1

Group No. 1

Day No. 1

Event Slot No. 1



Event Slot No. 2



Event Slot No. 3



Event Slot No. 4



} 4 bytes

7 bits — 00 - 95 - Time slot no.

96 - Sunrise

97 - Sunset

98 - unprogrammed

99 - unused code

1 bit — 0 = OFF event

1 = ON event

•

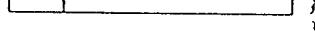
•

•

•

Day No. 7

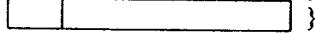
Event Slot No. 1



Event Slot No. 2



Event Slot No. 3



Event Slot No. 4



} 4 bytes

Group No. 2

•

•

•

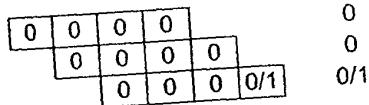
Group No. 10

FIG. 22

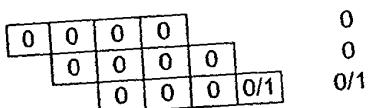
Generic Form of a Command with Two FOCC and One RECC

1. FOCC Address Page

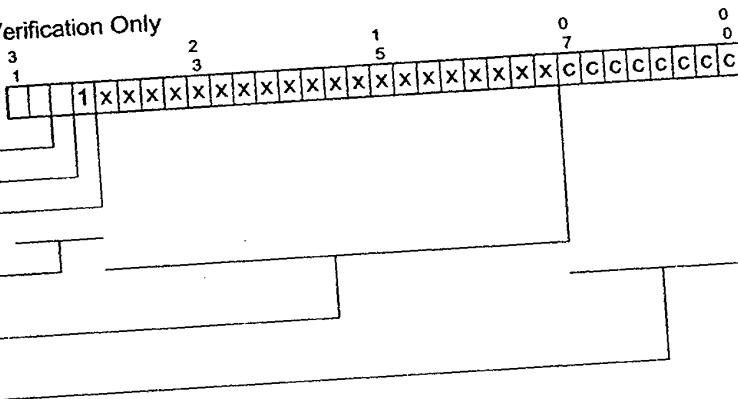
2. FOCC Data Page No. 1 (using Primary commands M1Ns)



3. FOCC Data Page No. 2 (using Secondary command M1Ns)



4. Registration Response – Verification Only



Checksum is the decimal sum of the last three (3) digits of address page plus the last three (3) digits of command page plus last three (3) digits of data page represented as an eight (8) bit value. The result is then converted to a One's Complement and kept as a single 8-bit value.

Example:

FOCC Address page: 0061014027

FOCC Address page: p p p p p p p 505
FOCC Command page: p p p p p p p 151

C Command page: F F F F F F F F
FOCC Data page: s s s s s s s s 1 5 1

Registration: 010100000000000000000111101111

$$\text{Sum: } 0+2+7+5+0+5+1+5+1 = 26 = \begin{matrix} 0 & 0 & 0 & 1 & 1 & 0 & 1 & 0 \\ 1 & 1 & 1 & 0 & 0 & 1 & 0 & 1 \end{matrix}$$

One's complement:

FIG. 23